

# Adjustable Catch Basin Lifting Device

U.S. Concrete Precast Group



# Produce higher quality with an 'Adjustable catch basin lifting device'

## *PURPOSE OF CONCEPT:*

- To help eliminate structural and non-structural cracking during the stripping process of 'green' products.*
- Maintain multiple same day pours on a single form while eliminating costs due to poor quality*

# Adjustable catch basin lifting device

## *Challenge:*

- To design a unit that would lift from a single pick point to get an even pull while maintaining the ability to handle various sized products*

# Adjustable catch basin lifting device

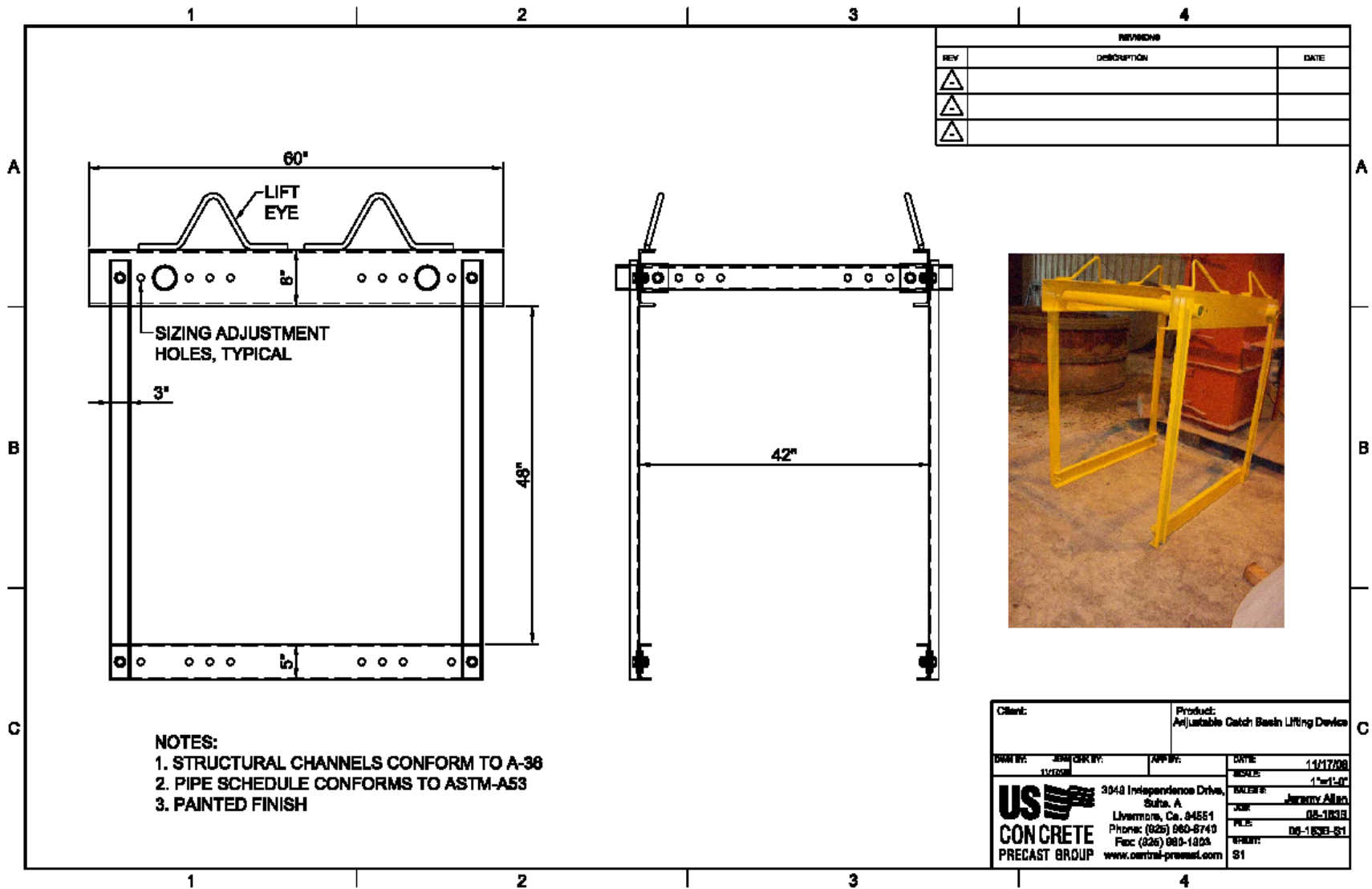
## *Resolve:*

- With the idea of a dual sliding bar system in one direction and a multiple bolt pattern in another, the design was complete to accommodate product from 12" x 12" ID to 48" x 48" ID product. Product height could vary up to the designed height of the bar of 48".*
- With the addition of a beam attached to the underside of the lifting device, we were able to grab the underside of the pallets we used to form the height of the product.*

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## *Testing:*

- *With the unit designed and fabricated, we had the device weight rated. Once the lifting device was placed into service we found that our assumptions were correct that the cracking was being caused by the uneven pulling of the former stripping process.*



REVISIONS		
REV	DESCRIPTION	DATE
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- NOTES:**
1. STRUCTURAL CHANNELS CONFORM TO A-36
  2. PIPE SCHEDULE CONFORMS TO ASTM-A53
  3. PAINTED FINISH

Client:		Product: Adjustable Catch Basin Lifting Device	
DRAWN BY: 11/17/98	DESIGNED BY:	APP'D BY:	DATE: 11/17/98
		3043 Independence Drive, Suite A Livermore, Ca. 94551 Phone: (925) 860-8740 Fax: (925) 860-1808 <a href="http://www.central-precast.com">www.central-precast.com</a>	
SCALE: 1"=1'-0"		DRAWN BY: Jeremy Allen	DATE: 08-18-99
JOB:		PRICE:	THRUOUT: 31







*Excellence*

*Innovation*





*Ingenuity*



*Ingenuity*

# Adjustable Catch Basin Lifting Device



- ***Eliminates discarded product***
- ***Saves patch work***
- ***Increases aesthetics/quality***